

Organic Reactions Summary Sheet

Reactants	Products	Conditions	Classification	Example	Uses /Other
Alkanes					
+ Oxygen	Complete: CO ₂ and water Incomplete: CO and water	Little bit of heat to get it going and plenty of oxygen Little bit of heat to get it going, and not enough O ₂ , oxygen is limiting reactant	Combustion (also redox reactions)	$2 \text{C}_8\text{H}_{18} + 13 \text{O}_2 \rightarrow 8 \text{CO}_2 + 10 \text{H}_2\text{O}$ $2 \text{C}_8\text{H}_{18} + 9 \text{O}_2 \rightarrow 8 \text{CO} + 10 \text{H}_2\text{O}$	CO harmful to humans, unburned hydrocarbons produce smog
+ Halogen (F ₂ , Cl ₂ , Br ₂ , I ₂)	haloalkane	UV light, hν	Substitution		
Alkenes					
+ halogen (F ₂ , Cl ₂ , Br ₂ , I ₂)	Dihaloalkane		Addition		Uses: makes starting material for PVC and indication of alkenes Br ₂ dissolved in dichloromethane is used to distinguish between alkenes and alkanes. If reddish-brown color of Br ₂ disappears when added to unknown, the unknown has alkenes in it.
+ hydrogen	Alkane	Platinum or palladium catalyst	Addition (also called reduction)		Hydrogenation of oil for margarine
+ acid halide (HF, HCl, HBr, HI)	Haloalkane		Addition		Haloalkanes are useful starting materials for organic syntheses
+ water	Alcohol	Acid conditions	Addition		commercial manufacture of ethanol
Alcohols					
+ Carboxylic acid	Ester + water	Acidic solution and heat	Condensation		Esters are used in flavouring agents, plasticizers, as solvents in perfume, polyester
+ oxidizing agent (KMnO ₄ or K ₂ Cr ₂ O ₇)	Primary: Aldehyde	For incomplete oxidation: Distillation in acidic aqueous soln	Oxidation		

Organic Chemistry Reactions Summary Sheet

Solomon Marmor



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Chemical Information for Chemists Judith N Currano, Dana L Roth, 2014 A chemical information book aimed specifically at practicing chemists Useful for students in undergraduate and graduate courses it could also be a guide to new information specialists who are facing the challenging diversity of chemical literature **Organic Chemistry as a Second Language** David R. Klein, 2019-11-19 Organic chemistry can be a challenging subject Most students view organic chemistry as a subject requiring hours upon hours of memorization Author David Klein's Second Language books prove this is not true organic chemistry is one continuous story that actually makes sense if you pay attention Offering a unique skill building approach these market leading books teach students how to ask the right questions to solve problems study more efficiently to avoid wasting time and learn to speak the language of organic chemistry The fifth edition of Organic Chemistry as a Second Language Second Semester Topics builds upon the principles previously explored in first half of the course delving deeper into molecular mechanisms reactions and analytical techniques Hands on exercises and thoroughly explained solutions further reinforce student comprehension of chemical concepts and organic principles An indispensable supplement to the primary text this resource covers aromatic compounds infrared IR and nuclear magnetic resonance NMR spectroscopy nucleophilic and electrophilic aromatic substitution ketones and aldehydes carboxylic acid derivatives and much more

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